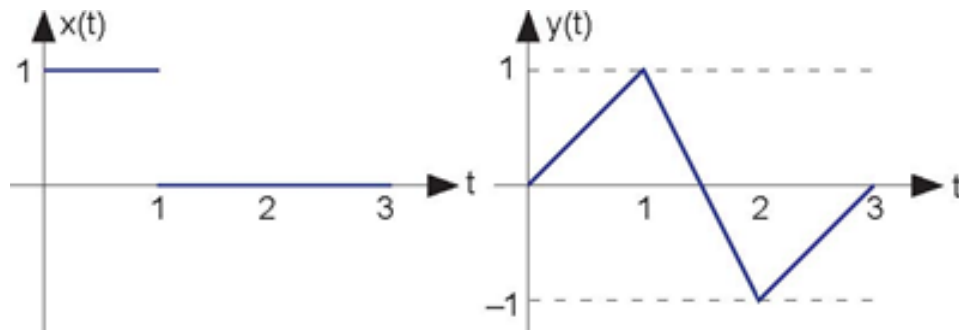


## Problem 2.7: Linear, Time-Invariant Systems

When the input to a linear, time-invariant system is the signal  $x(t)$ , the output is the signal  $y(t)$  (The following figure).



1. Find and sketch this system's output when the input is the depicted signal (Figure 2.19).
2. Find and sketch this system's output when the input is a unit step.

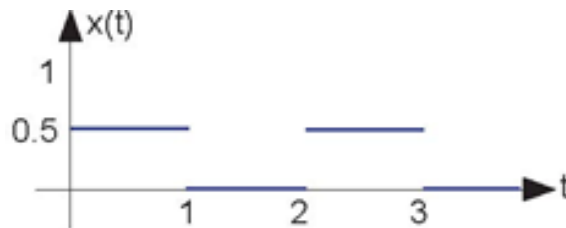


Figure 2.21